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$$V_{js} - V_{j0} = \sum W_{ij} \cdot \log (x_i / r_i) \quad I$$

(Σ の範囲は $i=1$ から m まで)

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TITLE : MEASURING METHOD FOR TASTE

$$f_k - b_k = \sum F_{ki} \cdot \log (x_i / r_i) \quad II$$

(Σ の範囲は $i=1$ から m まで)

ABSTRACT : PURPOSE: To calculate a human sense quantity by obtaining sensitivity to each basic taste of each sensor by a plurality of molecular film using taste sensors, calculating the taste intensity, and then obtaining a quantity of change per unit sense of a human when concentration of a taste exhibiting substance is increased by a unit amount.

CONSTITUTION: When sensitivity measuring solution comprising a certain amount of a substance B_1 (taste exhibiting substance) which exhibits a basic taste A_1 added to reference solution E_0 is measured by a taste sensor S_j , sensitivity W_{ij} to the basic taste A_1 is obtained from the output. The sensor S_j is used to measure the reference solution E_0 and sample solution E . to be measured, outputs V_{j0}, V_{js} of the sensor S_j and the sensitivity W_{ij} are substituted into an equation I, and simultaneous equations are solved to obtain concentration X_i of each taste exhibiting substance. r_i refers to concentration of a taste exhibiting substance B_i of the reference solution E_0 . A unit sense change quantity F_{ki} of a human when the taste exhibiting substance B_i is added by a unit amount to the reference solution E_0 is constant and thus can be easily obtained. The concentration X_i , r_i from the equation I and the change quantity F_{ki} are substituted into an equation II to obtain a human sense quantity F_k of a human for each basic taste.

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